

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C07H 21/02, 21/04, A61K 48/00, C12N 15/85, C12Q 1/68	A1	(11) International Publication Number: WO 00/50437 (43) International Publication Date: 31 August 2000 (31.08.00)
(21) International Application Number: PCT/US00/00654 (22) International Filing Date: 11 January 2000 (11.01.00) (30) Priority Data: 09/255,912 23 February 1999 (23.02.99) US (71) Applicant (for all designated States except US): ISIS PHARMACEUTICALS, INC. [US/US]; 2292 Faraday Avenue, Carlsbad, CA 92008 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): MONIA, Brett, P. [US/US]; 7605 Neuva Castilla Way, La Costa, CA 92009 (US). COWSERT, Lex, M. [US/US]; 3008 Newshire Street, Carlsbad, CA 92008 (US). (74) Agents: LICATA, Jane, Massey et al.; Law Offices of Jane Massey Licata, 66 E. Main Street, Marlton, NJ 08053 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: ANTISENSE MODULATION OF Smad2 EXPRESSION (57) Abstract Antisense compounds, compositions and methods are provided for modulating the expression of Smad2. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding Smad2. Methods of using these compounds for modulation of Smad2 expression and for treatment of diseases associated with expression of Smad2 are provided.		